



## Chapter 3.

### City of Belmont

#### 3.1 Hazard Mitigation Plan Point of Contact

##### Primary Point of Contact

Captain Pat Halleran, Emergency Coordinator  
One Twin Pines Lane, Suite 230  
Belmont, CA 94002  
Telephone: 650-595-7430  
e-mail Address: phalleran@belmont.gov

##### Alternate Point of Contact

Matt Lucett, Management Analyst  
One Twin Pines Lane, Suite 230  
Belmont, CA 94002  
Telephone: 650-595-7437  
e-mail Address: mlucett@belmont.gov

#### 3.2 Jurisdiction Profile

The following is a summary of key information about the jurisdiction and its history:

- ❖ **Date of Incorporation**— 1926
- ❖ **Current Population**— 27,834 (as of January 1, 2016 – CA DOF)
- ❖ **Population Growth**—According to the state Department of Finance, it is estimated that Belmont experienced a 0.7% increase in population between 2014 (26,573) & 2015 (26,748). Although 2020 & 2030 projections are not available for Belmont, the Department of Finance projects a 3.2% increase in population within San Mateo County between 2015 & 2020 and a 5.9% increase between 2020 & 2030.
- ❖ **Location and Description**— Known for its wooded hills, views of the San Francisco Bay and stretches of open space, Belmont is a quiet residential community in the midst of the culturally and technologically rich Bay Area. Belmont is located in San Mateo County, half-way between San Francisco and San Jose. The city is within easy driving distance of the Pacific Ocean, three major airports, and major employment centers including San Francisco, Silicon Valley and the East Bay. Belmont borders the cities of San Mateo, San Carlos and Redwood City as well as unincorporated San Mateo County.
- ❖ **Brief History**— Since its incorporation in 1926, Belmont has grown from a small town of less than 1,000 residents to a community of over 26,000. Much of the city's population and housing growth occurred during the 1950s and 1960s during the post-war periods.
- ❖ **Climate**— The City of Belmont enjoys the San Francisco Bay Area's Mediterranean-style climate with mild temperatures during the summer months and cool temperatures during the winter months. The warmest month of the year is July with an average maximum temperature of 80.80 degrees Fahrenheit while to coldest month is in December with an average minimum temperature of 38.60 degrees Fahrenheit. The annual average precipitation is 20.16 inches, with the wettest month of the year being January with an average rainfall of 4.20 inches.
- ❖ **Governing Body Format**—The City of Belmont is governed by a five-member city council elected to four-year terms. The council also serves as the governing body of the Belmont Fire Protection



District, a subsidiary district providing fire services to Belmont and the Harbor Industrial Area (HIA) located in unincorporated San Mateo County. Other departments within the city include Administrative Services, Community Development, Police and Public Works. The city has two commissions: Planning and Parks & Recreation, both of which make recommendations to the council in their respective areas. The City Council assumes responsibility for the adoption of this plan; and the city’s designated Emergency Management Coordinator will oversee its implementation.

- ❖ **Development Trends**— Since its incorporation in 1926, Belmont has grown from a small town of less than 1,000 to a community of 26,748 (2015 Department of Finance estimate). Much of the City’s population and housing growth occurred during the 1950s and 1960s during the post-war periods. Most of the residential neighborhoods are found on the hillsides with many open spaces and parks.

With much of the city currently “built out”, or developed, and with the preservation of open space a priority, undeveloped land available for development is limited. Most of the development over the next 20 years is likely to take place on sites that are currently vacant and/or on sites that are currently underutilized. Additionally, future development may come from expanded development of sites with existing structures or redevelopment of sites and structures that come to the end of their useful life over the next 20 years. Most of the vacant and underutilized sites in the Belmont Planning Area tend to be clustered in the eastern half of the city, especially in the Belmont Village Priority Development Area (PDA), along the El Camino Real transportation corridor and east of Highway 101. It is likely that much of the growth and change in Belmont over the next 20 years will occur in these areas. In August 2014, the city initiated a multi-year process of updating their General Plan and further details on develop trends are addressed in the Land Use Element of the draft plan.

### 3.3 Capability Assessment

An assessment of legal and regulatory capabilities is presented in Table 3-1. An assessment of fiscal capabilities is presented in Table 3-2. An assessment of administrative and technical capabilities is presented in Table 3-3. Information on National Flood Insurance Program (NFIP) compliance is presented in Table 3-4. Classifications under various community mitigation programs are presented in Table 3-5. An assessment of education and outreach capabilities is presented in Table 3-6.

TABLE 3-1. LEGAL AND REGULATORY CAPABILITY

	Local Authority	Other Jurisdiction Authority	State Mandated
Building Code	Yes	Yes	Yes

**Comment:** Adopted City Ordinance #1073 on 12-12-13/Other Jurisdiction includes the California Building Standards Commission



TABLE 3-1. LEGAL AND REGULATORY CAPABILITY

	Local Authority	Other Jurisdiction Authority	State Mandated
Zoning Code	Yes	No	Yes
<b>Comment:</b> Adopted City Ordinance #360 on 11-30-93/ City required to update zoning code to maintain General Plan consistency. Upon adoption of 2035 Belmont Comprehensive GP Update in first quarter 2017, the Belmont Zoning Code will be comprehensively updated accordingly. Various State Assembly bills or Federal Legislation enacted require local compliance (exp. Secondary Dwelling Units, Wireless Communications Facilities); Belmont complies as appropriate with these mandates.			
Subdivisions	Yes	No	Yes
<b>Comment:</b> City's Subdivision Ordinance Adopted 1985; amended periodically. Subject to on-going compliance and consistency with State of California Subdivision Map Act.			
Stormwater Management	Yes	Yes	Yes
<b>Comment:</b> Referenced in City Municipal Code Chapter 9(Grading) & Chapter 21 (Sewers and Sewage Disposal). City is also part of the San Mateo County Pollution Prevention Program(STOPPP). Other jurisdiction includes the State and Regional Water Quality Control Board.			
Post-Disaster Recovery	No	No	No
<b>Comment:</b>			
Real Estate Disclosure	No	No	Yes
<b>Comment:</b>			
Growth Management	Yes	No	No
<b>Comment:</b> Addressed in 2035 Belmont Comprehensive GP Update – see below.			
Site Plan Review	Yes	No	Yes
<b>Comment:</b> Site Plan Reviews facilitated primarily through Community Development and Public Works. California Building Code Section 107.2.1 Information on construction documents. Construction document shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the building official.			
Environmental Protection	Yes	Yes	Yes
<b>Comment:</b> City Municipal Code, Municipal Regional Permit (MRP) with Bay area Regional Water Quality Control Board, CEQA documentation, mitigations and Conditions of Approval			
Flood Damage Prevention	Yes	Yes	Yes
<b>Comment:</b> FEMA policy adopted in Belmont Municipal Code Sec. 7-208 on 11/27/01			
Emergency Management	Yes	Yes	Yes
<b>Comment:</b> Belmont Emergency Operations Plan			
Climate Change	Yes	Yes	Yes
<b>Comment:</b> To be addressed in Belmont Climate Action Plan; adoption first quarter 2017. See below.			
Other			
<b>Comment:</b>			
General or Comprehensive Plan	Yes	No	Yes
Is the plan equipped to provide linkage to this mitigation plan? Yes			



TABLE 3-1. LEGAL AND REGULATORY CAPABILITY

	Local Authority	Other Jurisdiction Authority	State Mandated
<b>Comment:</b> 2035 Belmont Comprehensive General Plan Update under preparation; adoption in first quarter 2017.			
Capital Improvement Plan	Yes	No	No
<i>What types of capital facilities does the plan address? The CIP addresses Streets, Technology, Facilities, Sewer/Storm and Parks/Open Space.</i>			
<i>How often is the plan updated? Annually</i>			
<b>Comment:</b>			
Floodplain or Watershed Plan	Yes	Yes	Yes
<b>Comment:</b> Flood Insurance Rate Map (FIRM) adopted by FEMA			
Stormwater Plan	Yes	Yes	Yes
<b>Comment:</b> Stormwater Master Plan adopted by Council in 2009			
Habitat Conservation Plan	No	No	No
<b>Comment:</b>			
Economic Development Plan	Yes	No	No
<b>Comment:</b> Addressed in 2035 Belmont Comprehensive GP Update – see above.			
Shoreline Management Plan	No	No	No
<b>Comment:</b>			
Community Wildfire Protection Plan	No	No	No
<b>Comment:</b>			
Forest Management Plan	No	No	No
<b>Comment:</b>			
Climate Action Plan	Yes	No	Yes
<b>Comment:</b> Draft Belmont CAP prepared; adoption will occur in conjunction with 2035 Belmont Comprehensive GP Update – see above.			
Other: Belmont Village Specific Plan	Yes	No	No
<b>Comment:</b> Belmont Village has been designated a “Priority Development Area (PDA)” by the Bay Area’s regional planning agency.			
Comprehensive Emergency Management Plan	Yes	No	No
<b>Comment:</b> Last revision June, 2000			
Threat & Hazard Identification & Risk Assessment	No	No	No
<b>Comment:</b> Was part of initial Hazard Mitigation Plan Annex with ABAG in 2005.			
Post-Disaster Recovery Plan	No	No	No
<b>Comment:</b>			
Continuity of Operations Plan	No	No	No
<b>Comment:</b>			
Public Health Plan	No	Yes	No
<b>Comment:</b> Public Health Department part of San Mateo County Health System			





TABLE 3-2. FISCAL CAPABILITY

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	No
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	No
Incur Debt through Special Tax Bonds	No
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	No
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	No
Other	No

TABLE 3-3. ADMINISTRATIVE AND TECHNICAL CAPABILITY

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Department of Public Works/City Engineer, PW Director, Sr. Civil Engineer
Engineers or professionals trained in building or infrastructure construction practices	Yes	Department of Public Works/All Engineering and Inspection personnel
Planners or engineers with an understanding of natural hazards	Yes	Department of Public Works/City Engineer, Sr. Civil Engineer
Staff with training in benefit/cost analysis	Yes	Department of Finance/Deputy Finance Director and Controller (Add Note)
Surveyors	Yes	Department of Public Works/Sr. Civil Engineer
Staff capable of making substantial damage estimates	Yes	Permit Center & Department of Public Works, Chief Building Official and Sr. Civil Engineer
Personnel skilled or trained in GIS applications	Yes	Department of Information Technology/GIS Coordinator, Department of Public Works/Engineering Technician/Associate Civil Engineer
Scientist familiar with natural hazards in local area	No	Insert appropriate information
Emergency manager	Yes	Police Department/Captain
Grant writers	No	Insert appropriate information

TABLE 3-4. NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Criteria	Response
When did the community enter the NFIP?	March 9, 1982
When did the Flood Insurance Rate maps become effective?	July 16, 2015 (Latest Maps)



TABLE 3-4. NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Criteria	Response
What local department is responsible for floodplain management?	Department of Public Works
Who is your floodplain administrator? (department/position)	Public Works Director
▪ Is this a primary or auxiliary role?	Primary
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	11/27/01
▪ Does your floodplain management program meet or exceed minimum requirements?	Exceeds
▪ If so, in what ways?	Belmont Ordinance adopted exceeds the minimum requirements. For example, building in Zone A shall be elevated 2 feet higher than adjacent grade. This is more than the 1 foot required by FEMA.
When was the most recent Community Assistance Visit or Community Assistance Contact?	September 9, 2010
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?	No
▪ If so, please state what they are.	Insert appropriate information
Do your flood hazard maps adequately address the flood risk within your jurisdiction?	Yes
▪ If no, please state why.	Insert appropriate information
Does your floodplain management staff need any assistance or training to support its floodplain management program?	Yes
▪ If so, what type of assistance/training is needed?	Staff may need continuous training to update their knowledge about most current requirements.
Does your jurisdiction participate in the Community Rating System (CRS)?	No
▪ If so, is your jurisdiction seeking to improve its CRS Classification?	N/A
▪ If not, is your jurisdiction interested in joining the CRS program?	Yes
How many Flood Insurance policies are in force in your jurisdiction?	110
▪ What is the insurance in force?	\$39,753,300
▪ What is the premium in force?	\$196,193
How many total loss claims have been filed in your jurisdiction?	12
▪ How many claims were closed without payment/are still open?	0
▪ What were the total payments for losses?	\$170,678



TABLE 3-5. COMMUNITY CLASSIFICATIONS

	Participating?	Classification	Date Classified
Community Rating System	No		
Building Code Effectiveness Grading Schedule	No		
Public Protection	No		
Storm Ready	No		
Firewise	No		

TABLE 3-6. EDUCATION AND OUTREACH

Criteria	Response
Do you have a Public Information Officer or Communications Office?	Yes, PIO through Belmont Police Department
Do you have personnel skilled or trained in website development?	Yes, personnel within each city department as well as support through Information Technology Department
Do you have hazard mitigation information available on your website?	Yes
<ul style="list-style-type: none"> <li>If yes, please briefly describe.</li> </ul>	Dedicated web page linked under "About Belmont"
Do you utilize social media for hazard mitigation education and outreach?	Yes
<ul style="list-style-type: none"> <li>If yes, please briefly describe.</li> </ul>	Outreach/Education provided primarily through Nextdoor, Twitter, City Website and City Manager's Weekly Update
Do you have any citizen boards or commissions that address issues related to hazard mitigation?	Yes
<ul style="list-style-type: none"> <li>If yes, please briefly specify.</li> </ul>	City of Belmont Planning Commission, Parks & Recreation Commission
Do you have any other programs already in place that could be used to communicate hazard-related information?	Yes, Limited
<ul style="list-style-type: none"> <li>If yes, please briefly describe.</li> </ul>	Vegetation Management Program providing information on wildfire threat within community
Do you have any established warning systems for hazard events?	Yes
<ul style="list-style-type: none"> <li>If yes, please briefly describe.</li> </ul>	SMC Alert in partnership with San Mateo County OES

### 3.4 Integration with Other Planning Initiatives

The following describe the jurisdiction's process for integrating the hazard mitigation plan into local planning mechanisms.



### 3.4.1 Existing Integration

The following plans and programs currently integrate the goals, risk assessment and/or recommendations of the hazard mitigation plan:

- ❖ **Belmont General Plan**- Belmont's 2035 General Plan Update which is currently under preparation with anticipated adoption expected in first quarter 2017, integrates the local hazard mitigation plan through the development of goals, policies and actions within the following elements:
  - **Safety**- is AB2140 compliant by referencing the city's hazard mitigation plan and associated planning efforts and plan development, and addresses vulnerabilities including seismic and geologic, flooding (including dam inundation & sea level rise), hazardous materials, utilities, fires (urban & wildland) hazards.
  - **Land Use**- references updating area plans with creating design standards for the interface between open spaces and neighborhoods within the wildland urban interface zone, as well as the combination of geologic, flood, steep slope and wildland fire hazards within both the San Juan and Western Hills Area Plans.
  - **Parks, Recreation and Open Space**- addresses the continuation of programs to reduce the fire danger in open space areas and evaluating the necessity of a stream buffer overlay zone around Belmont Creek to facilitate management and protection of the waterway and developed areas
  - **Conservation**- addresses the reduction of wildland fire and pathogen threats (such as Sudden Oak Death) throughout the open space areas, restoration of Belmont Creek to enhance flood control, preservation/conservation of water resources in partnership with Mid-Peninsula Water District, maintaining and improving the reliability of the city's storm drainage system to reduce flooding, and the development of a Climate Action Plan.
- ❖ **San Juan Hills Area Plan**- plan addresses unique conditions within the San Juan Hills area, including geologic (seismic, landslides, steep slope) and flooding as well as goals, objectives and policies addressing such conditions including adoption of geologic maps, requiring geologic investigations as part of applications for development and adherence to land use policies.
- ❖ **Western Hills Area Plan**- plan addresses unique conditions within the San Juan Hills area, including geologic (seismic, landslides, steep slope) and flooding as well as goals, objectives and policies addressing such conditions including adoption of geologic maps, requiring geologic investigations as part of applications for development and adherence to land use policies.
- ❖ **City of Belmont Emergency Operations Plan**—EOP includes a Threat Summary and Assessments chapter addressing earthquake, hazardous materials, flooding, dam failure, transportation accident, landslides, wildfire, oil spill, tsunami, civil unrest and national security emergency.

### 3.4.2 Opportunities for Future Integration

The following plans and programs do not currently integrate the goals, risk assessment and/or recommendations of the hazard mitigation plan, but provide an opportunity for future integration:

- ❖ **Notre Dame Dam Emergency Action Plan**- plan needs to be updated to better incorporate hazard mitigation goals, risk assessment and/or recommendations of the hazard mitigation plan.



- ❖ **San Juan Hills Plan**— update of plan is an implementation priority addressed in the Land Use Element of the General Plan and needs to better incorporate hazard mitigation goals, risk assessment and/or recommendations of this hazard mitigation plan, including the incorporation of the wildland-urban interface (WUI) threat.
- ❖ **Western Hills Area Plan**— update of plan is an implementation priority addressed in the Land Use Element of the General Plan and needs to better incorporate hazard mitigation goals, risk assessment and/or recommendations of this hazard mitigation plan, including the incorporation of the wildland-urban interface (WUI) threat.
- ❖ **City of Belmont Climate Action Plan**—Draft Climate Action Plan prepared and adoption will occur in conjunction with 2035 Belmont Comprehensive GP Update.
- ❖ **City of Belmont Emergency Operations Plan**—EOP needs to be updated to better incorporate goals, risk assessment and recommendations of this newly revised mitigation plan.

### 3.5 Jurisdiction-Specific Natural Hazard Event History

Table 3-6 lists all past occurrences of natural hazards within the jurisdiction.

TABLE 3-6. NATURAL HAZARD EVENTS

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Severe Storm	N/A	December 11, 2014	Unknown
Severe Storm	N/A	December 17-19, 2010	Unknown
Severe Storm	N/A	January 18-22, 2010	Unknown
Severe Storm	N/A	October 13, 2009	Unknown
Severe Storm	N/A	January 25-28, 2008	Unknown
Severe Storm	N/A	January 3-7, 2008	Unknown
Severe Storm	N/A	April 3-5, 2006	Unknown
Severe Storm	N/A	March 27, 2006	Unknown
Landslides (Courtland & Vine)	N/A	February, 2005	Unknown
Severe Storm	DR-1203	December 1997- February 1998	Unknown
Loma Prieta Earthquake	DR-845	October 17, 1989	\$37,662

### 3.6 Jurisdiction-Specific Vulnerabilities

Repetitive loss records are as follows:

- ❖ Number of FEMA-identified Repetitive-Loss Properties: 0
- ❖ Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- ❖ Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: 0

Other noted vulnerabilities include:



- ❖ Drainage issue associated with creek which results in consistent flooding during heavy rains at Harbor Blvd. & Old County Road.
- ❖ Downed trees and landslides which occur during severe weather along the Ralston Avenue corridor which is the primary transportation thoroughfare through the city.

### 3.7 Hazard Risk Ranking

Table 3-7 presents the ranking of the hazards of concern.

TABLE 3-7. HAZARD RISK RANKING

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Earthquake	48	High
2	Wildfire	36	High
3	Severe Weather	33	High
4	Landslide	18	Medium
5	Flood	18	Medium
6	Dam Failure	6	Low
7	Drought	3	Low
8	Tsunami	0	Low

### 3.8 Hazard Mitigation Action Plan and Evaluation of Recommended Actions

Table 3-8 lists the actions that make up the City of Belmont hazard mitigation action plan. Table 3-9 identifies the priority for each action. Table 3-10 summarizes the mitigation actions by hazard of concern and the six mitigation types.

TABLE 3-8. HAZARD MITIGATION ACTION PLAN MATRIX

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
<b>BM-1</b> —Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas and prioritize those structures that have experienced repetitive losses.						
Existing	All Hazards	4, 5, 7, 9, 10	Community Development	High	HMGP, PDM, FMA, CDBG-DR	Short-term
<b>BM-2</b> —Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions within Belmont.						
New and Existing	All Hazards	2, 4,	Community Development	Low	Staff Time, General Funds	On-going
<b>BM-3</b> —Develop and implement a program to capture perishable data after significant events (e.g. high water marks, preliminary damage estimates, damage photos) to support future mitigation efforts including the implementation and maintenance of the hazard mitigation plan.						



TABLE 3-8. HAZARD MITIGATION ACTION PLAN MATRIX

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Existing	All Hazards	1, 2, 4, 11	Emergency Management (PD & FD)	Medium	Staff Time, General Funds	Short-term
<b>BM-4</b> —Support the County-wide initiatives identified in Volume I of the hazard mitigation plan.						
New and existing	All	All	Emergency Management	Low	General Fund	Short- and long-term
<b>BM-5</b> —Actively participate in the plan maintenance protocols outlined in Volume I of the hazard mitigation plan.						
New and Existing	All	1, 4	Emergency Management	Low	Staff Time, General Funds	Short-term
<b>BM-6</b> — Continue to maintain good standing and compliance under the National Flood Insurance Program (NFIP). This will be accomplished through the implementation of floodplain management programs that will, at a minimum, meet the requirements of the NFIP:						
<ul style="list-style-type: none"> <li>• Enforcement of the flood damage prevention ordinance</li> <li>• Participate in floodplain identification and mapping updates</li> </ul>						
Provide public assistance/information on floodplain requirements and impacts.						
New and Existing	Flood	1, 4, 5, 9	Public Works	Low	Staff Time, General Funds	On-going
<b>BM-7</b> —Work with building officials to identify ways to improve the jurisdictions' BCEGS classification.						
New	Earthquake, Flood, Landslide, Severe weather, Tsunami, Wildfire	5, 6, 7, 10, 11	Community Development	Low	Staff Time, General Funds	Short-term
<b>BM-8</b> —Develop a post-disaster recovery plan and a debris management plan.						
Existing	All Hazards	1, 2, 4, 9	Emergency Management	Medium	EMPG	Long-term
<b>BM-9</b> —Participate in programs such as Firewise, StormReady and the Community Rating System.						
New	Dam Failure, Flood, Severe weather, Wildfire	1, 7	Emergency Management* and Public Works	Low	Staff Time, General Funds	Short-term
<b>BM-10</b> —Develop a Soft Story Retrofit Program requiring property owners to seismically strengthen vulnerable residential buildings in Belmont modeled after City & County of San Francisco's Program.						
Existing	Earthquake	1,2,3,4,7,10	Community Development*, Emergency Management (PD & Fire)	High	HMGP, PDM, FMA	Long-Term
<b>BM-11</b> —Develop a Continuity of Operations Plan (COOP) to ensure the continuation of government functions following a significant event.						
New and Existing	All Hazards	1,2,10	Emergency Management	Low	Staff Time, General Funds	Short-Term





TABLE 3-8. HAZARD MITIGATION ACTION PLAN MATRIX

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
<b>BM-12</b> — Develop inventory of vulnerable populations (i.e. school children, elderly) within Belmont as well as a communications and resource allocation plan specific to target population.						
Existing	All Hazards	1,2,6,9	Emergency Management*, IT	Low	Staff Time, General Funds	Short-Term
<b>BM-13</b> —Develop emergency preparedness outreach program targeting vulnerable populations (i.e. school children, elderly) within community.						
Existing	All Hazards	2,3,6,7,9,10	Emergency Management	Low	Staff Time, General Funds	Short-Term
<b>BM-14</b> —Coordinate the dredging of Water Dog Lake to regain lost water storage capacity.						
Existing	Flooding, Dam Failure	1,4,5,7	Public Works*, Parks	High	HMGP, PDM, FMA	Long-Term
<b>BM-15</b> —Develop mapping of geologically active areas within Belmont for the purpose of adopting plans similar to the city's San Juan Area Plan, which serves as a means to develop focused policies designed to address unique problems and assets in the area.						
Existing	Landslide, Flood	1,3,7	Public Works*, Community Development	High	Staff Time, General Funds	Long-Term
<b>BM-16</b> —Identify needs associated with a permanent drainage solution for the areas east of Highway 101 in Belmont.						
Existing	Flooding,	1,3,5,7	Public Works*, Emergency Management	High	HMGP, PDM, FMA	Long-Term
<b>BM-17</b> —Coordinate with the California Department of Forestry and Fire Protection's Fire and Resource Assessment Program (FRAP) on expanding the Very High Fire Hazard Severity Zone (VHFHSZ) to the San Juan Canyon area of Belmont.						
Existing	Wildfire	1,2,3,7,	Emergency Management*, Community Development	Low	Staff Time, General Funds	Short-Term
<b>BM-18</b> — Facilitate improvements to Water Dog Lake Road for public safety access to open space areas in Belmont.						
Existing	Dam Failure, Landslide, Severe Weather, Wildfire	1,4,7	Public Works*, Parks	High	HMGP, PDM, FMA	Long-Term
<b>BM-19</b> —Partner with Mid-Peninsula Water District on providing water conservation outreach & education to community.						
Existing	Drought	1,2,3,10	Emergency Management	Low	Staff Time, General Funds	Short-Term
<b>BM-20</b> —Coordinate inventory and assessment of drought stressed and/or diseased trees within Belmont.						



TABLE 3-8. HAZARD MITIGATION ACTION PLAN MATRIX

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Existing	Drought, Wildfire, Severe Weather, Landslide	1,3	Parks	High	HMGP, PDM	Long-Term
<b>BM-21</b> —Develop long-term strategy for replacement of distressed roadways throughout Belmont						
Existing	Flooding, Severe Weather	1,7	Public Works	High	State Gas Tax & Measure A Funds	Long-Term
<b>BM-22</b> —Work with Mid-Peninsula Water District on incorporating procedures into city's Emergency Operations Plan (EOP) addressing potential failure of non-seismic retrofitted water tanks.						
Existing	Flooding	1, 2,3,7	Emergency Management	Low	Staff Time, General Funds	Short-Term
<b>BM-23</b> —Map inundation areas associated with Water Dog Lake Dam failure.						
Existing	Dam Failure, Flooding	1,3,5	Public Works, Emergency Management*, IT	High	HMGP, PDM	Short-term
<b>BM-24</b> —Expand public outreach/education and emergency notification to include Water Dog Lake Dam failure threat.						
Existing	Dam Failure, Flooding	2,3,6,7,9,10	Emergency Management	Low	Staff Time, General Funds	Short-Term
<b>BM-25</b> —Continue to work with local electric utility on the city's Utilities Undergrounding Program						
Existing	Earthquake, Wildfire, Severe Weather, Flood, Landslide	1,2,4,6	Public Works	High	PG&E, Rule 20A Allocations	Long-Term
<b>Action G-1</b> —Provide incentives for eligible non-profits and private entities, including homeowners, to adapt to risks through structural and nonstructural retrofitting.						
New and existing	All	2, 3, 4, 5, 6, 7, 8, 10, 11	Jurisdictions	Low	Operating Budgets	Ongoing

TABLE 3-9. MITIGATION STRATEGY PRIORITY SCHEDULE

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Implementation Priority <sup>a</sup>	Grant Priority <sup>a</sup>
BM-1	5	High	High	Yes	Yes	No	Medium	High
BM-2	2	Medium	Low	Yes	No	Yes	High	Low
BM-3	4	Low	Medium	No	No	Maybe	Low	Low
BM-4	11	Low	Low	Yes	No	Yes	High	Low
BM-5	2	Low	Low	Yes	No	Yes	High	Low



TABLE 3-9. MITIGATION STRATEGY PRIORITY SCHEDULE

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Implementation Priority <sup>a</sup>	Grant Priority <sup>a</sup>
BM-6	4	Medium	Low	Yes	No	Yes	High	Low
BM-7	5	Medium	Low	Yes	No	Yes	High	Low
BM-8	4	Medium	Medium	Yes	Yes	No	Medium	High
BM-9	2	Medium	Low	Yes	No	Yes	High	Low
BM-10	6	High	Medium	Yes	Yes	Yes	High	High
BM-11	3	Low	Low	Yes	No	Yes	High	Low
BM-12	4	Medium	Low	Yes	No	Yes	High	Low
BM-13	6	Medium	Low	Yes	No	Yes	High	Low
BM-14	4	High	High	Yes	Yes	No	Medium	High
BM-15	3	Low	Medium	Yes	Yes	No	Medium	Medium
BM-16	4	Medium	High	Yes	Yes	No	Medium	Medium
BM-17	4	Low	Low	Yes	No	Yes	High	Low
BM-18	3	Low	High	No	No	No	Low	Low
BM-19	4	Medium	Low	Yes	No	Yes	High	Low
BM-20	2	Medium	High	No	No	No	Low	Low
BM-21	2	Low	High	No	No	No	Low	Low
BM-22	4	Low	Low	Yes	No	Yes	High	Low
BM-23	3	High	High	Yes	Yes	No	High	High
BM-24	6	Medium	Low	Yes	No	Yes	High	Low
BM-25	4	Low	Low	Yes	No	Yes	High	Low
G-1	9	Low	Low	Yes	No	Yes	Low	Low

a. See the introduction to this volume for explanation of priorities.

TABLE 3-10. ANALYSIS OF MITIGATION ACTIONS

Hazard Type	Action Addressing Hazard, by Mitigation Type <sup>a</sup>					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Earthquake	BM-2, BM-3, BM-4, BM-5, BM-7, BM-8, BM-10	BM-1, BM-7, BM-10, BM-25	BM-4, BM-10, BM-12, BM-13		BM-8, BM-11, BM-12	
Wildfire	BM-2, BM-3, BM-4, BM-5, BM-7, BM-17	BM-1, BM-7, BM-9, BM-25	BM-4, BM-9, BM-12, BM-13	BM-9, BM-20	BM-11, BM-12, BM-18	BM-18



TABLE 3-10. ANALYSIS OF MITIGATION ACTIONS

Hazard Type	Action Addressing Hazard, by Mitigation Type <sup>a</sup>					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Severe Weather	BM-2, BM-3, BM-4, BM-5, BM-7, BM-8	BM-1, BM-7, BM-9, BM-25	BM-4, BM-12, BM-13	BM-8, BM-9, BM-20	BM-11, BM-12, BM-18	BM-18, BM-21
Landslide	BM-2, BM-3, BM-4, BM-5, BM-7, BM-8, BM-15	BM-1, BM-7, BM-25	BM-4, BM-12, BM-13	BM-20	BM-8, BM-11, BM-12, BM-18	BM-18
Flood	BM-2, BM-3, BM-4, BM-5, BM-6, BM-7, BM-8, BM-15, BM-16, BM-23	BM-1, BM-6, BM-7, BM-25	BM-4, BM-6, BM-12, BM-13, BM-24	BM-9	BM-8, BM-11, BM-12, BM-22, BM-23	BM-14, BM-21
Dam Failure	BM-2, BM-3, BM-4, BM-5, BM-6, BM-8, BM-23	BM-1, BM-6	BM-4, BM-6, BM-12, BM-13, BM-24		BM-8, BM-11, BM-12, BM-18, BM-23	BM-14, BM-18
Drought	BM-2, BM-3, BM-4, BM-5, BM-8	BM-1	BM-4, BM-12, BM-13, BM-19	BM-20	BM-8, BM-11, BM-12	
Tsunami	BM-2, BM-3, BM-4, BM-5, BM-7, BM-8	BM-1, BM-7	BM-4, BM-12, BM-13		BM-8, BM-11, BM-12	

<sup>a</sup>. See the introduction to this volume for explanation of mitigation types.















